

Page 1 of 27  
Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
Revision date / version: 21.03.2019 / 0014  
Replacing version dated / version: 22.02.2019 / 0013  
Valid from: 21.03.2019  
PDF print date: 22.03.2019  
Auto Duft Speed Sport Fresh 8 g  
Art.: 1664

## Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

**Auto Duft Speed Sport Fresh 8 g**  
**Art.: 1664**

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

**Relevant identified uses of the substance or mixture:**

Air-Freshener

Sector of use [SU]:

SU 3 - Industrial uses: Uses of substances as such or in preparations at industrial sites

SU21 - Consumer uses: Private households (=general public = consumers)

SU22 - Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

Chemical product category [PC]:

PC 3 - Air care products

PC28 - Perfumes, fragrances

Process category [PROC]:

PROC 8a - Transfer of substance or mixture (charging and discharging) at non-dedicated facilities

PROC 8b - Transfer of substance or mixture (charging and discharging) at dedicated facilities

PROC 9 - Transfer of substance or mixture into small containers (dedicated filling line, including weighing)

Article Categories [AC]:

AC99 - Not required.

Environmental Release Category [ERC]:

ERC 4 - Use of non-reactive processing aid at industrial site (no inclusion into or onto article)

ERC 7 - Use of functional fluid at industrial site

ERC 8a - Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)

ERC 8d - Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor)

#### **Uses advised against:**

No information available at present.

#### 1.3 Details of the supplier of the safety data sheet

LIQUI MOLY GmbH, Jerg-Wieland-Str. 4, 89081 Ulm-Lehr, Germany

Phone:(+49) 0731-1420-0, Fax:(+49) 0731-1420-88

Qualified person's e-mail address: info@chemical-check.de, k.schnurbusch@chemical-check.de Please DO NOT use for requesting Safety Data Sheets.

#### 1.4 Emergency telephone number

**Emergency information services / official advisory body:**

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**Telephone number of the company in case of emergencies:**

+49 (0) 700 / 24 112 112 (LMR)

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

**Classification according to Regulation (EC) 1272/2008 (CLP)**

Hazard class	Hazard category	Hazard statement
Flam. Liq.	3	H226-Flammable liquid and vapour.

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 21.03.2019 / 0014

Replacing version dated / version: 22.02.2019 / 0013

Valid from: 21.03.2019

PDF print date: 22.03.2019

Auto Duft Speed Sport Fresh 8 g

Art.: 1664

Eye Irrit.	2	H319-Causes serious eye irritation.
Skin Irrit.	2	H315-Causes skin irritation.
Skin Sens.	1	H317-May cause an allergic skin reaction.
Aquatic Chronic	2	H411-Toxic to aquatic life with long lasting effects.

## 2.2 Label elements

### Labeling according to Regulation (EC) 1272/2008 (CLP)



#### Warning

H226-Flammable liquid and vapour. H319-Causes serious eye irritation. H315-Causes skin irritation. H317-May cause an allergic skin reaction. H411-Toxic to aquatic life with long lasting effects.

P101-If medical advice is needed, have product container or label at hand. P102-Keep out of reach of children.

P210-Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P261-Avoid breathing vapours or spray. P273-Avoid release to the environment. P280-Wear protective gloves / eye protection / face protection.

P305+P351+P338-IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P314-Get medical advice / attention if you feel unwell.

P501-Dispose of contents / container to an approved waste disposal facility.

Linalyl acetate

Lemon oil

Bergamot, ext.

(R)-p-mentha-1,8-diene

Linalool

1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one

2,4-Dimethylcyclohex-3-ene-1-carbaldehyde

Cyclohexanol, 4-(1,1-dimethylethyl)-, acetate

pin-2(10)-ene

1,2,3,5,6,7-hexahydro-1,1,2,3,3-pentamethyl-4H-inden-4-one

Hexyl salicylate

2-(4-tert-butylbenzyl) propionaldehyde

Mandarin oil

Tetramethyl acetyloctahydronaphthalenes (OTNE)

## 2.3 Other hazards

The mixture does not contain any vPvB substance (vPvB = very persistent, very bioaccumulative) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

## SECTION 3: Composition/information on ingredients

### 3.1 Substance

n.a.

### 3.2 Mixture

Page 3 of 27  
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
 Revision date / version: 21.03.2019 / 0014  
 Replacing version dated / version: 22.02.2019 / 0013  
 Valid from: 21.03.2019  
 PDF print date: 22.03.2019  
 Auto Duft Speed Sport Fresh 8 g  
 Art.: 1664

<b>2-tert-Butylcyclohexyl acetate</b>	
Registration number (REACH)	---
Index	---
EINECS, ELINCS, NLP	201-828-7
CAS	88-41-5
content %	10-<25
Classification according to Regulation (EC) 1272/2008 (CLP)	Aquatic Chronic 2, H411

<b>Cyclohexanol, 4-(1,1-dimethylethyl)-, acetate</b>	
Registration number (REACH)	01-2119976286-24-XXXX
Index	---
EINECS, ELINCS, NLP	250-954-9
CAS	32210-23-4
content %	10-<25
Classification according to Regulation (EC) 1272/2008 (CLP)	Skin Sens. 1B, H317

<b>2-methyl-6-methyleno-7-en-2-ol, dihydro derivative</b>	
Registration number (REACH)	---
Index	---
EINECS, ELINCS, NLP	258-432-2
CAS	53219-21-9
content %	5-<10
Classification according to Regulation (EC) 1272/2008 (CLP)	Eye Irrit. 2, H319

<b>2-Phenylethanol</b>	
Registration number (REACH)	01-2119963921-31-XXXX
Index	---
EINECS, ELINCS, NLP	200-456-2
CAS	60-12-8
content %	5-<10
Classification according to Regulation (EC) 1272/2008 (CLP)	Acute Tox. 4, H302 Eye Irrit. 2, H319

<b>3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one</b>	
Registration number (REACH)	01-2120138569-45-XXXX
Index	---
EINECS, ELINCS, NLP	204-846-3
CAS	127-51-5
content %	2,5-<5
Classification according to Regulation (EC) 1272/2008 (CLP)	Aquatic Chronic 2, H411

<b>(R)-p-mentha-1,8-diene</b>	
Registration number (REACH)	01-2119529223-47-XXXX
Index	601-029-00-7
EINECS, ELINCS, NLP	227-813-5
CAS	5989-27-5
content %	2,5-<5
Classification according to Regulation (EC) 1272/2008 (CLP)	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)

<b>Linalool</b>	
Registration number (REACH)	01-2119474016-42-XXXX
Index	603-235-00-2
EINECS, ELINCS, NLP	201-134-4
CAS	78-70-6
content %	2,5-<5

Page 4 of 27  
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
 Revision date / version: 21.03.2019 / 0014  
 Replacing version dated / version: 22.02.2019 / 0013  
 Valid from: 21.03.2019  
 PDF print date: 22.03.2019  
 Auto Duft Speed Sport Fresh 8 g  
 Art.: 1664

<b>Classification according to Regulation (EC) 1272/2008 (CLP)</b>	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317
<b>Benzophenone</b>	
<b>Registration number (REACH)</b>	01-2119899704-20-XXXX
<b>Index</b>	---
<b>EINECS, ELINCS, NLP</b>	204-337-6
<b>CAS</b>	119-61-9
<b>content %</b>	2,5-<5
<b>Classification according to Regulation (EC) 1272/2008 (CLP)</b>	STOT RE 2, H373 Aquatic Chronic 3, H412
<b>Tetramethyl acetyloctahydronaphthalenes (OTNE)</b>	
<b>Registration number (REACH)</b>	01-2119489989-04-XXXX
<b>Index</b>	---
<b>EINECS, ELINCS, NLP</b>	915-730-3 (REACH-IT List-No.)
<b>CAS</b>	---
<b>content %</b>	2,5-<5
<b>Classification according to Regulation (EC) 1272/2008 (CLP)</b>	Skin Irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)
<b>Linalyl acetate</b>	
<b>Registration number (REACH)</b>	01-2119454789-19-XXXX
<b>Index</b>	---
<b>EINECS, ELINCS, NLP</b>	204-116-4
<b>CAS</b>	115-95-7
<b>content %</b>	1-<2,5
<b>Classification according to Regulation (EC) 1272/2008 (CLP)</b>	Skin Irrit. 2, H315 Skin Sens. 1B, H317 Eye Irrit. 2, H319
<b>2-(4-tert-butylbenzyl) propionaldehyde</b>	
<b>Registration number (REACH)</b>	01-2119485965-18-XXXX
<b>Index</b>	---
<b>EINECS, ELINCS, NLP</b>	201-289-8
<b>CAS</b>	80-54-6
<b>content %</b>	1-<2,5
<b>Classification according to Regulation (EC) 1272/2008 (CLP)</b>	Acute Tox. 4, H302 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Chronic 3, H412 Repr. 2, H361f
<b>1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran</b>	
<b>Registration number (REACH)</b>	01-2119488227-29-XXXX
<b>Index</b>	603-212-00-7
<b>EINECS, ELINCS, NLP</b>	214-946-9
<b>CAS</b>	1222-05-5
<b>content %</b>	0,1-<1
<b>Classification according to Regulation (EC) 1272/2008 (CLP)</b>	Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)
<b>Lemon oil</b>	
<b>Registration number (REACH)</b>	---
<b>Index</b>	---
<b>EINECS, ELINCS, NLP</b>	---
<b>CAS</b>	8008-56-8
<b>content %</b>	0,1-<1

Page 5 of 27  
Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
Revision date / version: 21.03.2019 / 0014  
Replacing version dated / version: 22.02.2019 / 0013  
Valid from: 21.03.2019  
PDF print date: 22.03.2019  
Auto Duft Speed Sport Fresh 8 g  
Art.: 1664

<b>Classification according to Regulation (EC) 1272/2008 (CLP)</b>	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1) Asp. Tox. 1, H304
<b>Bergamot, ext.</b>	
<b>Registration number (REACH)</b>	01-2120117613-65-XXXX
<b>Index</b>	---
<b>EINECS, ELINCS, NLP</b>	289-612-9
<b>CAS</b>	8007-75-8 / 89957-91-5
<b>content %</b>	0,1-<1
<b>Classification according to Regulation (EC) 1272/2008 (CLP)</b>	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 3, H412
<b>2,6-di-tert-butyl-p-cresol</b>	
<b>Registration number (REACH)</b>	---
<b>Index</b>	---
<b>EINECS, ELINCS, NLP</b>	204-881-4
<b>CAS</b>	128-37-0
<b>content %</b>	0,1-<1
<b>Classification according to Regulation (EC) 1272/2008 (CLP)</b>	Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)
<b>1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one</b>	
<b>Registration number (REACH)</b>	---
<b>Index</b>	---
<b>EINECS, ELINCS, NLP</b>	260-709-8
<b>CAS</b>	57378-68-4
<b>content %</b>	0,1-<1
<b>Classification according to Regulation (EC) 1272/2008 (CLP)</b>	Acute Tox. 4, H302 Skin Irrit. 2, H315 Skin Sens. 1A, H317 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)
<b>2,4-Dimethylcyclohex-3-ene-1-carbaldehyde</b>	
<b>Registration number (REACH)</b>	---
<b>Index</b>	---
<b>EINECS, ELINCS, NLP</b>	268-264-1
<b>CAS</b>	68039-49-6
<b>content %</b>	0,1-<1
<b>Classification according to Regulation (EC) 1272/2008 (CLP)</b>	Skin Irrit. 2, H315 Skin Sens. 1B, H317 Eye Irrit. 2, H319 Aquatic Chronic 3, H412
<b>pin-2(10)-ene</b>	
<b>Registration number (REACH)</b>	01-2119519230-54-XXX
<b>Index</b>	---
<b>EINECS, ELINCS, NLP</b>	204-872-5
<b>CAS</b>	127-91-3
<b>content %</b>	0,1-<1
<b>Classification according to Regulation (EC) 1272/2008 (CLP)</b>	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)

Page 6 of 27  
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
 Revision date / version: 21.03.2019 / 0014  
 Replacing version dated / version: 22.02.2019 / 0013  
 Valid from: 21.03.2019  
 PDF print date: 22.03.2019  
 Auto Duft Speed Sport Fresh 8 g  
 Art.: 1664

<b>1,2,3,5,6,7-hexahydro-1,1,2,3,3-pentamethyl-4H-inden-4-one</b>	
<b>Registration number (REACH)</b>	01-2119977131-40-XXXX
<b>Index</b>	---
<b>EINECS, ELINCS, NLP</b>	251-649-3
<b>CAS</b>	33704-61-9
<b>content %</b>	0,1-<1
<b>Classification according to Regulation (EC) 1272/2008 (CLP)</b>	Skin Irrit. 2, H315 Skin Sens. 1B, H317 Eye Irrit. 2, H319 Aquatic Chronic 2, H411

<b>Juniper, Juniperus virginiana, ext.</b>	
<b>Registration number (REACH)</b>	---
<b>Index</b>	---
<b>EINECS, ELINCS, NLP</b>	285-370-3
<b>CAS</b>	8000-27-9 / 85085-41-2 / 91722-61-1
<b>content %</b>	0,1-<1
<b>Classification according to Regulation (EC) 1272/2008 (CLP)</b>	Asp. Tox. 1, H304 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)

<b>Hexyl salicylate</b>	
<b>Registration number (REACH)</b>	01-2119638275-36-XXXX
<b>Index</b>	---
<b>EINECS, ELINCS, NLP</b>	228-408-6
<b>CAS</b>	6259-76-3
<b>content %</b>	0,1-<1
<b>Classification according to Regulation (EC) 1272/2008 (CLP)</b>	Skin Sens. 1B, H317 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)

<b>Mandarin oil</b>	
<b>Registration number (REACH)</b>	01-2120074120-72-XXXX
<b>Index</b>	---
<b>EINECS, ELINCS, NLP</b>	284-521-0
<b>CAS</b>	8008-31-9 / 84929-38-4
<b>content %</b>	0,1-<1
<b>Classification according to Regulation (EC) 1272/2008 (CLP)</b>	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 2, H411

<b>7-methyl-3-methylenoocta-1,6-diene</b>	
<b>Registration number (REACH)</b>	01-2119514321-56-XXXX
<b>Index</b>	---
<b>EINECS, ELINCS, NLP</b>	204-622-5
<b>CAS</b>	123-35-3
<b>content %</b>	0,1-<1
<b>Classification according to Regulation (EC) 1272/2008 (CLP)</b>	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1) Skin Irrit. 2, H315 Eye Irrit. 2, H319

For the text of the H-phrases and classification codes (GHS/CLP), see Section 16.

The substances named in this section are given with their actual, appropriate classification!

For substances that are listed in appendix VI, table 3.1 of the regulation (EC) no. 1272/2008 (CLP regulation) this means that all notes that may be given here for the named classification have been taken into account.

## SECTION 4: First aid measures

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
Revision date / version: 21.03.2019 / 0014  
Replacing version dated / version: 22.02.2019 / 0013  
Valid from: 21.03.2019  
PDF print date: 22.03.2019  
Auto Duft Speed Sport Fresh 8 g  
Art.: 1664

#### 4.1 Description of first aid measures

First-aiders should ensure they are protected!

Never pour anything into the mouth of an unconscious person!

##### Inhalation

Supply person with fresh air and consult doctor according to symptoms.

##### Skin contact

Remove polluted, soaked clothing immediately, wash thoroughly with plenty of water and soap, in case of irritation of the skin (flare), consult a doctor.

##### Eye contact

Remove contact lenses.

Wash thoroughly for several minutes using copious water. Seek medical help if necessary.

##### Ingestion

Typically no exposure pathway.

Call doctor immediately - have Data Sheet available.

#### 4.2 Most important symptoms and effects, both acute and delayed

If applicable delayed symptoms and effects can be found in section 11 and the absorption route in section 4.1.

In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours.

#### 4.3 Indication of any immediate medical attention and special treatment needed

Symptomatic treatment.

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

##### Suitable extinguishing media

Adapt to the nature and extent of fire.

Water jet spray/foam/CO2/dry extinguisher

##### Unsuitable extinguishing media

None known

#### 5.2 Special hazards arising from the substance or mixture

In case of fire the following can develop:

Oxides of carbon

Toxic gases

#### 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes.

Protective respirator with independent air supply.

According to size of fire

Full protection, if necessary.

Dispose of contaminated extinction water according to official regulations.

### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

Ensure sufficient supply of air.

Remove possible causes of ignition - do not smoke.

Avoid contact with eyes or skin.

#### 6.2 Environmental precautions

Prevent surface and ground-water infiltration, as well as ground penetration.

Prevent from entering drainage system.

#### 6.3 Methods and material for containment and cleaning up

Pick up mechanically and dispose of according to Section 13.

#### 6.4 Reference to other sections

For personal protective equipment see Section 8 and for disposal instructions see Section 13.

### SECTION 7: Handling and storage

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
Revision date / version: 21.03.2019 / 0014  
Replacing version dated / version: 22.02.2019 / 0013  
Valid from: 21.03.2019  
PDF print date: 22.03.2019  
Auto Duft Speed Sport Fresh 8 g  
Art.: 1664

In addition to information given in this section, relevant information can also be found in section 8 and 6.1.

## 7.1 Precautions for safe handling

### 7.1.1 General recommendations

Ensure good ventilation.  
Remove possible causes of ignition - do not smoke.  
Avoid contact with eyes or skin.  
Eating, drinking, smoking, as well as food-storage, is prohibited in work-room.  
Observe directions on label and instructions for use.  
Use working methods according to operating instructions.

### 7.1.2 Notes on general hygiene measures at the workplace

General hygiene measures for the handling of chemicals are applicable.  
Wash hands before breaks and at end of work.  
Keep away from food, drink and animal feedingstuffs.  
Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

## 7.2 Conditions for safe storage, including any incompatibilities


Keep out of access to unauthorised individuals.  
Store product closed and only in original packing.  
Not to be stored in gangways or stair wells.  
Observe special storage conditions.  
Do not store with flammable or self-igniting materials.  
Protect from direct sunlight and warming.  
Store in a well ventilated place.  
Store cool.

## 7.3 Specific end use(s)

No information available at present.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

	<b>Chemical Name</b>	2,6-di-tert-butyl-p-cresol		Content %:0,1-<1
WEL-TWA: 10 mg/m3		WEL-STEL: ---		---
Monitoring procedures:		---		
BMGV: ---			Other information: ---	

#### 2-tert-Butylcyclohexyl acetate

Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
	Environment - freshwater		PNEC	0,011	mg/l	
	Environment - marine		PNEC	0,0011	mg/l	
	Environment - sewage treatment plant		PNEC	10	mg/l	
	Environment - sediment, freshwater		PNEC	1,5	mg/kg dw	
	Environment - sediment, marine		PNEC	0,15	mg/kg dw	
	Environment - soil		PNEC	0,293	mg/kg dw	

#### Cyclohexanol, 4-(1,1-dimethylethyl)-, acetate

Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
	Environment - freshwater		PNEC	0,0053	mg/l	
	Environment - marine		PNEC	0,00053	mg/l	



Page 9 of 27  
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
 Revision date / version: 21.03.2019 / 0014  
 Replacing version dated / version: 22.02.2019 / 0013  
 Valid from: 21.03.2019  
 PDF print date: 22.03.2019  
 Auto Duft Speed Sport Fresh 8 g  
 Art.: 1664

	Environment - water, sporadic (intermittent) release		PNEC	0,053	mg/l	
	Environment - sediment, freshwater		PNEC	2,01	mg/kg	
	Environment - sediment, marine		PNEC	0,21	mg/kg	
	Environment - soil		PNEC	0,42	mg/kg	

2-Phenylethanol						
Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
	Environment - freshwater		PNEC	0,215	mg/l	
	Environment - marine		PNEC	0,0215	mg/l	
	Environment - periodic release		PNEC	2,15	mg/l	
	Environment - sewage treatment plant		PNEC	10	mg/l	
	Environment - sediment, freshwater		PNEC	1,454	mg/kg	
	Environment - sediment, marine		PNEC	0,1454	mg/kg	
	Environment - soil		PNEC	0,164	mg/kg	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	17,7	mg/m3	
Consumer	Human - dermal	Long term, systemic effects	DNEL	12,7	mg/kg bw/d	
Consumer	Human - oral	Long term, systemic effects	DNEL	5,1	mg/kg bw/d	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	59,9	mg/m3	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	21,2	mg/kg bw/d	

Linalool						
Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
	Environment - freshwater		PNEC	0,2	mg/l	
	Environment - marine		PNEC	0,02	mg/l	
	Environment - water, sporadic (intermittent) release		PNEC	2	mg/l	
	Environment - sewage treatment plant		PNEC	10	mg/l	
	Environment - sediment, freshwater		PNEC	2,22	mg/kg	
	Environment - sediment, marine		PNEC	0,222	mg/kg	
	Environment - soil		PNEC	0,3	mg/kg	
Consumer	Human - dermal	Long term, systemic effects	DNEL	1,25	mg/kg bw/d	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	0,7	mg/m3	
Consumer	Human - oral	Long term, systemic effects	DNEL	0,2	mg/kg bw/d	
Consumer	Human - dermal	Short term, systemic effects	DNEL	2,5	mg/kg bw/d	
Consumer	Human - inhalation	Short term, systemic effects	DNEL	4,1	mg/m3	

Page 10 of 27  
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
 Revision date / version: 21.03.2019 / 0014  
 Replacing version dated / version: 22.02.2019 / 0013  
 Valid from: 21.03.2019  
 PDF print date: 22.03.2019  
 Auto Duft Speed Sport Fresh 8 g  
 Art.: 1664

Consumer	Human - oral	Short term, systemic effects	DNEL	1,2	mg/kg bw/d	
Consumer	Human - dermal	Long term, local effects	DNEL	15	mg/kg bw/d	
Consumer	Human - dermal	Short term, systemic effects	DNEL	15	mg/kg bw/d	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	2,5	mg/kg bw/d	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	2,8	mg/m3	
Workers / employees	Human - dermal	Short term, systemic effects	DNEL	5	mg/kg bw/d	
Workers / employees	Human - inhalation	Short term, systemic effects	DNEL	16,5	mg/m3	
Workers / employees	Human - dermal	Long term, local effects	DNEL	15	mg/kg bw/d	
Workers / employees	Human - dermal	Short term, local effects	DNEL	15	mg/kg bw/d	

Tetramethyl acetyloctahydronaphthalenes (OTNE)						
Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
	Environment - freshwater		PNEC	0,0028	mg/l	
	Environment - marine		PNEC	0,00028	mg/l	
	Environment - sediment, freshwater		PNEC	3,73	mg/kg	
	Environment - sediment, marine		PNEC	0,75	mg/kg	
	Environment - soil		PNEC	0,705	mg/kg	
Workers / employees	Human - dermal	Long term, local effects	DNEL	0,1011	mg/cm2	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	1,76	mg/m3	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	173	mg/kg body weight/day	

2-(4-tert-butylbenzyl) propionaldehyde						
Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
	Environment - freshwater		PNEC	0,00204	mg/l	
	Environment - marine		PNEC	0,0002	mg/l	
	Environment - sediment, freshwater		PNEC	0,269	mg/kg	
	Environment - sediment, marine		PNEC	0,0269	mg/kg	
	Environment - soil		PNEC	0,0525	mg/kg	
	Environment - sewage treatment plant		PNEC	10	mg/l	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	0,11	mg/m3	
Consumer	Human - oral	Long term, systemic effects	DNEL	0,0625	mg/kg	
Consumer	Human - dermal	Long term, systemic effects	DNEL	1,0375	mg/kg	
Consumer	Human - dermal	Short term, local effects	DNEL	0,41	mg/cm2	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	0,44	mg/m3	
Workers / employees	Human - dermal	Short term, local effects	DNEL	0,41	mg/cm2	

Page 11 of 27  
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
 Revision date / version: 21.03.2019 / 0014  
 Replacing version dated / version: 22.02.2019 / 0013  
 Valid from: 21.03.2019  
 PDF print date: 22.03.2019  
 Auto Duft Speed Sport Fresh 8 g  
 Art.: 1664

Workers / employees	Human - dermal	Long term, systemic effects	DNEL	2,075	mg/kg	
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1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran						
Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
	Environment - freshwater		PNEC	4,4	µg/l	
	Environment - marine		PNEC	0,44	µg/l	
	Environment - water, sporadic (intermittent) release		PNEC	47	µg/l	
	Environment - sewage treatment plant		PNEC	1	mg/l	
	Environment - sediment, freshwater		PNEC	2	mg/kg	
	Environment - sediment, marine		PNEC	0,394	mg/kg	
	Environment - soil		PNEC	0,31	mg/kg	
	Environment - oral (animal feed)		PNEC	3,3	mg/kg	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	1,3	mg/m3	
Consumer	Human - dermal	Long term, systemic effects	DNEL	14,43	mg/kg bw/d	
Consumer	Human - oral	Long term, systemic effects	DNEL	0,75	mg/kg bw/d	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	5,29	mg/m3	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	28,85	mg/kg bw/d	

2,6-di-tert-butyl-p-cresol						
Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
	Environment - soil		PNEC	1,04	mg/kg wwt	
	Environment - sewage treatment plant		PNEC	100	mg/l	
	Environment - sediment		PNEC	1,29	mg/kg wwt	
	Environment - marine		PNEC	0,4	µg/l	
	Environment - periodic release		PNEC	4	µg/l	
	Environment - freshwater		PNEC	4	µg/l	
	Environment - oral (animal feed)		PNEC	16,7	mg/kg	
	Environment - soil		PNEC	1,23	mg/kg	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	1,74	mg/m3	
Consumer	Human - dermal	Long term, systemic effects	DNEL	5	mg/kg bw/d	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	5,8	mg/m3	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	8,3	mg/kg bw/day	

Hexyl salicylate						
Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note

Page 12 of 27  
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
 Revision date / version: 21.03.2019 / 0014  
 Replacing version dated / version: 22.02.2019 / 0013  
 Valid from: 21.03.2019  
 PDF print date: 22.03.2019  
 Auto Duft Speed Sport Fresh 8 g  
 Art.: 1664

	Environment - freshwater		PNEC	0,000357	mg/l	
	Environment - marine		PNEC	0,0000357	mg/l	
	Environment - sediment, freshwater		PNEC	0,059	mg/kg	
	Environment - sediment, marine		PNEC	0,0059	mg/kg	
	Environment - soil		PNEC	0,0542	mg/kg	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	0,219	mg/m3	
Consumer	Human - dermal	Long term, systemic effects	DNEL	1250	mg/kg bw/d	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	0,729	mg/m3	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	2083	mg/kg bw/d	

Oxydipropanol						
Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
	Environment - freshwater		PNEC	0,1	mg/l	
	Environment - marine		PNEC	0,01	mg/l	
	Environment - sporadic (intermittent) release		PNEC	1	mg/l	
	Environment - sewage treatment plant		PNEC	1000	mg/l	
	Environment - sediment, freshwater		PNEC	0,238	mg/kg	
	Environment - marine		PNEC	0,0238	mg/kg	
	Environment - soil		PNEC	0,0253	mg/kg	
	Environment - oral (animal feed)		PNEC	313	mg/kg	
Consumer	Human - dermal	Long term, systemic effects	DNEL	51	mg/kg	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	70	mg/m3	
Consumer	Human - oral	Long term, systemic effects	DNEL	24	mg/kg	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	84	mg/kg	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	238	mg/m3	

GB WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40. AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany).  
 (8) = Inhalable fraction (2017/164/EU, 2017/2398/EU). (9) = Respirable fraction (2017/164/EU, 2017/2398/EU). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period).  
 (8) = Inhalable fraction (2017/164/EU, 2017/2398/EU). (9) = Respirable fraction (2017/164/EU, 2017/2398/EU). (10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU). | BMGV = Biological monitoring guidance value EH40. BGW = "Biologischer Grenzwert" (biological limit value, Germany) | Other information: Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.  
 \*\* = The exposure limit for this substance is repealed through the TRGS 900 (Germany) of January 2006 with the goal of revision.

## 8.2 Exposure controls

### 8.2.1 Appropriate engineering controls

Ensure good ventilation. This can be achieved by local suction or general air extraction.  
 If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn.  
 Applies only if maximum permissible exposure values are listed here.

Page 13 of 27  
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
 Revision date / version: 21.03.2019 / 0014  
 Replacing version dated / version: 22.02.2019 / 0013  
 Valid from: 21.03.2019  
 PDF print date: 22.03.2019  
 Auto Duft Speed Sport Fresh 8 g  
 Art.: 1664

Suitable assessment methods for reviewing the effectiveness of protection measures adopted include metrological and non-metrological investigative techniques.

These are specified by e.g. BS EN 14042.

BS EN 14042 "Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents".

## 8.2.2 Individual protection measures, such as personal protective equipment

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

Eye/face protection:

Normally not necessary.

Skin protection - Hand protection:

Normally not necessary.

With long-term contact:

If applicable

Protective nitrile gloves (EN 374).

Minimum layer thickness in mm:

0,4

Permeation time (penetration time) in minutes:

> 480

Protective hand cream recommended.

The breakthrough times determined in accordance with EN 16523-1 were not obtained under practical conditions.

The recommended maximum wearing time is 50% of breakthrough time.

Skin protection - Other:

Usual protective working garments

Respiratory protection:

Normally not necessary.

Thermal hazards:

Not applicable

Additional information on hand protection - No tests have been performed.

In the case of mixtures, the selection has been made according to the knowledge available and the information about the contents.

Selection of materials derived from glove manufacturer's indications.

Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account.

Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.

In the case of mixtures, the resistance of glove materials cannot be predicted and must therefore be tested before use.

The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

## 8.2.3 Environmental exposure controls

No information available at present.

# SECTION 9: Physical and chemical properties

## 9.1 Information on basic physical and chemical properties

Physical state:	Solid. Active substance: liquid.
Colour:	Light yellow
Odour:	Lemon, Fresh
Odour threshold:	Not determined
pH-value:	Not determined
Melting point/freezing point:	Not determined
Initial boiling point and boiling range:	Not determined
Flash point:	47 °C
Evaporation rate:	Not determined
Flammability (solid, gas):	Not determined

Page 14 of 27  
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
 Revision date / version: 21.03.2019 / 0014  
 Replacing version dated / version: 22.02.2019 / 0013  
 Valid from: 21.03.2019  
 PDF print date: 22.03.2019  
 Auto Duft Speed Sport Fresh 8 g  
 Art.: 1664

Lower explosive limit:	Not determined
Upper explosive limit:	Not determined
Vapour pressure:	38 Pa (20°C)
Vapour density (air = 1):	Not determined
Density:	947 kg/m <sup>3</sup>
Bulk density:	Not determined
Solubility(ies):	Not determined
Water solubility:	Insoluble
Partition coefficient (n-octanol/water):	Not determined
Auto-ignition temperature:	225 °C
Decomposition temperature:	Not determined
Viscosity:	5,93 mm <sup>2</sup> /s (40°C)
Explosive properties:	Not determined
Oxidising properties:	Not determined

## 9.2 Other information

Miscibility:	Not determined
Fat solubility / solvent:	Not determined
Conductivity:	Not determined
Surface tension:	Not determined
Solvents content:	Not determined

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

The product has not been tested.

### 10.2 Chemical stability

Stable with proper storage and handling.

### 10.3 Possibility of hazardous reactions

No dangerous reactions are known.

### 10.4 Conditions to avoid

See also section 7.

Heating, open flame, ignition sources

### 10.5 Incompatible materials

Avoid contact with strong oxidizing agents.

Avoid contact with strong alkalis.

Avoid contact with strong acids.

### 10.6 Hazardous decomposition products

See also section 5.2

No decomposition when used as directed.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Possibly more information on health effects, see Section 2.1 (classification).

#### Auto Duft Speed Sport Fresh 8 g

Art.: 1664

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	ATE	>2000	mg/kg			calculated value
Acute toxicity, by dermal route:						n.d.a.
Acute toxicity, by inhalation:						n.d.a.
Skin corrosion/irritation:						n.d.a.
Serious eye damage/irritation:						n.d.a.
Respiratory or skin sensitisation:						n.d.a.
Germ cell mutagenicity:						n.d.a.
Carcinogenicity:						n.d.a.
Reproductive toxicity:						n.d.a.
Specific target organ toxicity - single exposure (STOT-SE):						n.d.a.

Page 15 of 27  
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
 Revision date / version: 21.03.2019 / 0014  
 Replacing version dated / version: 22.02.2019 / 0013  
 Valid from: 21.03.2019  
 PDF print date: 22.03.2019  
 Auto Duft Speed Sport Fresh 8 g  
 Art.: 1664

Specific target organ toxicity - repeated exposure (STOT-RE):						n.d.a.
Aspiration hazard:						n.d.a.
Symptoms:						n.d.a.

2-tert-Butylcyclohexyl acetate						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	4600	mg/kg	Rat		
Acute toxicity, by dermal route:	LD50	>5000	mg/kg	Rabbit		

Cyclohexanol, 4-(1,1-dimethylethyl)-, acetate						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	3370	mg/kg	Rat	OECD 401 (Acute Oral Toxicity)	
Acute toxicity, by dermal route:	LD50	>5000	mg/kg	Rabbit		
Respiratory or skin sensitisation:				Mouse	OECD 429 (Skin Sensitisation - Local Lymph Node Assay)	Skin Sens. 1B

2-methyl-6-methylenooct-7-en-2-ol, dihydro derivative						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Skin corrosion/irritation:						Classification according to Directive 67/548/EEC, Irritant
Serious eye damage/irritation:						Classification according to Regulation (EC) 1272/2008 (CLP), Irritant

2-Phenylethanol						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	1603,3	mg/kg	Rat	OECD 401 (Acute Oral Toxicity)	
Acute toxicity, by dermal route:	LD50	2535	mg/kg	Rabbit	OECD 402 (Acute Dermal Toxicity)	
Acute toxicity, by inhalation:	LD50	>4,63	mg/l/4h	Rat		
Skin corrosion/irritation:				Rabbit		Not irritant
Skin corrosion/irritation:				Human being		Not irritant
Serious eye damage/irritation:				Human being		Irritant
Respiratory or skin sensitisation:				Human being		
Symptoms:						coughing, headaches, stomach cramps, drowsiness, mucous membrane irritation, nausea and vomiting.

(R)-p-mentha-1,8-diene						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>5000	mg/kg	Rat	OECD 401 (Acute Oral Toxicity)	
Acute toxicity, by dermal route:	LD50	>5000	mg/kg	Rabbit		
Respiratory or skin sensitisation:				Mouse	OECD 429 (Skin Sensitisation - Local Lymph Node Assay)	Skin Sens. 1

Page 16 of 27  
Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
Revision date / version: 21.03.2019 / 0014  
Replacing version dated / version: 22.02.2019 / 0013  
Valid from: 21.03.2019  
PDF print date: 22.03.2019  
Auto Duft Speed Sport Fresh 8 g  
Art.: 1664

Symptoms:						diarrhoea, rash, itching, gastrointestinal disturbances, mucous membrane irritation, nausea and vomiting.
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Linalool						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	2790	mg/kg	Rat	OECD 401 (Acute Oral Toxicity)	
Acute toxicity, by dermal route:	LD50	5610	mg/kg	Rabbit	OECD 402 (Acute Dermal Toxicity)	
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosion)	Irritant
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosion)	Eye Irrit. 2
Respiratory or skin sensitisation:						Yes (skin contact)
Germ cell mutagenicity:				Mouse	OECD 474 (Mammalian Erythrocyte Micronucleus Test)	Negative
Germ cell mutagenicity:				Salmonella typhimurium	OECD 471 (Bacterial Reverse Mutation Test)	Negative

1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	> 4640	mg/kg	Rat	OECD 401 (Acute Oral Toxicity)	
Acute toxicity, by dermal route:	LD50	> 6500	mg/kg	Rat	OECD 402 (Acute Dermal Toxicity)	
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosion)	Not irritant
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosion)	Not irritant
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	No (skin contact)
Germ cell mutagenicity:					OECD 473 (In Vitro Mammalian Chromosome Aberration Test)	Negative
Reproductive toxicity:					OECD 426 (Developmental Neurotoxicity Study)	No indications of such an effect.
Specific target organ toxicity - repeated exposure (STOT-RE), oral:	NOAEL	150	mg/kg	Rat	OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)	

Lemon oil						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Skin corrosion/irritation:						Irritant
Respiratory or skin sensitisation:						Sensitising (skin contact)

2,6-di-tert-butyl-p-cresol						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>2930	mg/kg	Rat	OECD 401 (Acute Oral Toxicity)	



Page 17 of 27  
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
 Revision date / version: 21.03.2019 / 0014  
 Replacing version dated / version: 22.02.2019 / 0013  
 Valid from: 21.03.2019  
 PDF print date: 22.03.2019  
 Auto Duft Speed Sport Fresh 8 g  
 Art.: 1664

Acute toxicity, by dermal route:	LD50	>5000	mg/kg	Rabbit	OECD 402 (Acute Dermal Toxicity)	
Skin corrosion/irritation:						Slightly irritant
Serious eye damage/irritation:				Rabbit	(Draize-Test)	Slightly irritant
Respiratory or skin sensitisation:				Human being		Not sensitizing
Germ cell mutagenicity:					(Ames-Test)	Negative
Reproductive toxicity:	NOAEL	100	mg/kg	Rat		
Specific target organ toxicity - repeated exposure (STOT-RE):	NOEL	25	mg/kg	Rat		(28 d)
Symptoms:						mucous membrane irritation

#### 1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	1821	mg/kg	Mouse		
Acute toxicity, by dermal route:	LD50	>5000	mg/kg	Rabbit		
Respiratory or skin sensitisation:				Mouse	OECD 429 (Skin Sensitisation - Local Lymph Node Assay)	Yes (skin contact)

#### 2,4-Dimethylcyclohex-3-ene-1-carbaldehyde

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>3100	mg/kg	Rat		
Acute toxicity, by dermal route:	LD50	>5000	mg/kg	Rabbit		

#### pin-2(10)-ene

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	4700	mg/kg	Rat		
Acute toxicity, by dermal route:	LD50	>5000	mg/kg	Rabbit		
Aspiration hazard:						Yes
Symptoms:						diarrhoea, vomiting, disturbed heart rhythm, headaches, mucous membrane irritation, dizziness

#### 1,2,3,5,6,7-hexahydro-1,1,2,3,3-pentamethyl-4H-inden-4-one

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	2901	mg/kg	Rat	OECD 401 (Acute Oral Toxicity)	
Skin corrosion/irritation:				Human being	Regulation (EC) 440/2008 B.46 (IN VITRO SKIN IRRITATION - RECONSTRUCTED HUMAN EPIDERMIS MODEL TEST)	Irritant
Serious eye damage/irritation:				Chicken	OECD 438 (Isolated Chicken Eye Test Method for Identifying Ocular Corrosives and Severe Irritants)	Irritant
Respiratory or skin sensitisation:				Mouse	OECD 429 (Skin Sensitisation - Local Lymph Node Assay)	Sensitising

Page 18 of 27  
Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
Revision date / version: 21.03.2019 / 0014  
Replacing version dated / version: 22.02.2019 / 0013  
Valid from: 21.03.2019  
PDF print date: 22.03.2019  
Auto Duft Speed Sport Fresh 8 g  
Art.: 1664

Germ cell mutagenicity:				Mouse	OECD 476 (In Vitro Mammalian Cell Gene Mutation Test)	Negative
Reproductive toxicity:				Rat	OECD 421 (Reproduction/Developmental Toxicity Screening Test)	Negative
Specific target organ toxicity - repeated exposure (STOT-RE), oral:	NOAEL	10	mg/kg bw/d	Rat	OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)	

Juniper, Juniperus virginiana, ext.						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Aspiration hazard:						Yes
Symptoms:						drop in blood pressure, diarrhoea, annoyance, nausea and vomiting.

## SECTION 12: Ecological information

Possibly more information on environmental effects, see Section 2.1 (classification).

Auto Duft Speed Sport Fresh 8 g Art.: 1664							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:							n.d.a.
12.1. Toxicity to daphnia:							n.d.a.
12.1. Toxicity to algae:							n.d.a.
12.2. Persistence and degradability:							n.d.a.
12.3. Bioaccumulative potential:							n.d.a.
12.4. Mobility in soil:							n.d.a.
12.5. Results of PBT and vPvB assessment							n.d.a.
12.6. Other adverse effects:							n.d.a.
Other information:							DOC-elimination degree (complexing organic substance) >= 80%/28d: n.a.
Other information:	AOX		0%				

2-tert-Butylcyclohexyl acetate							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	1,7	mg/l			
12.1. Toxicity to daphnia:	EC50	48h	17	mg/l			
12.1. Toxicity to algae:	EC50	72h	4,2	mg/l	Desmodesmus subspicatus		
12.2. Persistence and degradability:		28d	43	%		OECD 301 F (Ready Biodegradability - Manometric Respirometry Test)	Not readily biodegradable

Cyclohexanol, 4-(1,1-dimethylethyl)-, acetate							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes

Page 19 of 27  
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
 Revision date / version: 21.03.2019 / 0014  
 Replacing version dated / version: 22.02.2019 / 0013  
 Valid from: 21.03.2019  
 PDF print date: 22.03.2019  
 Auto Duft Speed Sport Fresh 8 g  
 Art.: 1664

12.1. Toxicity to fish:	LC50	96h	8,6	mg/l	Cyprinus caprio	Regulation (EC) 440/2008 C.1 (ACUTE TOXICITY FOR FISH)	
12.1. Toxicity to daphnia:	EC50	48h	5,3	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to algae:	EC50	72h	22	mg/l	Scenedesmus subspicatus	Regulation (EC) 440/2008 C.3 (FRESHWATER ALGAE AND CYANOBACTERIA, GROWTH INHIBITION TEST)	
12.1. Toxicity to algae:	NOEC/NOEL	72h	6,8	mg/l	Scenedesmus subspicatus	Regulation (EC) 440/2008 C.3 (FRESHWATER ALGAE AND CYANOBACTERIA, GROWTH INHIBITION TEST)	
12.2. Persistence and degradability:	BOD5/COD	14d	88	%		Regulation (EC) 440/2008 C.4-C (DETERMINATION OF 'READY' BIODEGRADABILITY - CO2 EVOLUTION TEST)	Readily biodegradable
12.2. Persistence and degradability:		28d	75	%		OECD 301 B (Ready Biodegradability - Co2 Evolution Test)	Readily biodegradable
12.3. Bioaccumulative potential:	BCF		334,6				Low
12.3. Bioaccumulative potential:	Log Pow		4,8				Low
Toxicity to bacteria:	EC50	3h	302	mg/l	activated sludge	Regulation (EC) 440/2008 C.11 (BIODEGRADATION - ACTIVATED SLUDGE RESPIRATION INHIBITION)	

2-Phenylethanol							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	>215- <464	mg/l	Leuciscus idus		
12.1. Toxicity to fish:	NOEC/NOEL	96h	100	mg/l	Leuciscus idus		
12.1. Toxicity to daphnia:	EC50	48h	287,17	mg/l	Daphnia magna	Regulation (EC) 440/2008 C.2 (DAPHNIA SP. ACUTE IMMOBILISATION TEST)	
12.1. Toxicity to algae:	EC50	72h	1,3	mg/l	Desmodesmus subspicatus		

Page 20 of 27  
Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
Revision date / version: 21.03.2019 / 0014  
Replacing version dated / version: 22.02.2019 / 0013  
Valid from: 21.03.2019  
PDF print date: 22.03.2019  
Auto Duft Speed Sport Fresh 8 g  
Art.: 1664

12.2. Persistence and degradability:		28d	79	%		OECD 301 B (Ready Biodegradability - Co2 Evolution Test)	Readily biodegradable
12.3. Bioaccumulative potential:	Log Pow		1,36				Low
Toxicity to bacteria:	EC50	3h	>100	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))	

(R)-p-mentha-1,8-diene							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	0,70	mg/l	Pimephales promelas	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to daphnia:	EC50	48h	0,42	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to algae:	NOEC/NOEL	96h	4	mg/l			
12.2. Persistence and degradability:		28d	92	%		OECD 301 D (Ready Biodegradability - Closed Bottle Test)	

Linalool							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	27,8	mg/l	Oncorhynchus mykiss	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to daphnia:	EC50	48h	59	mg/l	Daphnia magna	DIN 38412 T.11	
12.1. Toxicity to algae:	EC50	96h	88,3	mg/l	Scenedesmus subspicatus	OECD 201 (Alga, Growth Inhibition Test)	
12.2. Persistence and degradability:	BOD	28d	64,2	%		OECD 301 D (Ready Biodegradability - Closed Bottle Test)	Readily biodegradable
12.3. Bioaccumulative potential:	Log Pow		2,9				A notable biological accumulation potential is not to be expected (LogPow 1-3)., Low 20°C

1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	21d	0,452	mg/l	Lepomis macrochirus	OECD 204 (Fish, Prolonged Toxicity Test - 14-Day Study)	
12.1. Toxicity to fish:	NOEC/NOEL	21d	0,093	mg/l	Lepomis macrochirus	OECD 204 (Fish, Prolonged Toxicity Test - 14-Day Study)	Clinical signs

12.1. Toxicity to fish:	NOEC/NOEL	21d	0,182	mg/l	Lepomis macrochirus	OECD 204 (Fish, Prolonged Toxicity Test - 14-Day Study)	
12.1. Toxicity to fish:	LC50	96h	1,36	mg/l	Lepomis macrochirus	OECD 204 (Fish, Prolonged Toxicity Test - 14-Day Study)	calculated value
12.1. Toxicity to daphnia:	EC50	48h	0,47	mg/l	Acartia tonsa	ISO 14669	
12.1. Toxicity to daphnia:	NOEC/NOEL	21d	111	µg/l	Daphnia magna	OECD 211 (Daphnia magna Reproduction Test)	
12.1. Toxicity to daphnia:	EC50	48h	0,9	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	calculated value
12.1. Toxicity to algae:	EC50	72h	> 0,854	mg/l	Pseudokirchneriella subcapitata	OECD 201 (Alga, Growth Inhibition Test)	
12.2. Persistence and degradability:		28d	~ 2	%		OECD 301 B (Ready Biodegradability - Co2 Evolution Test)	Not readily biodegradable
12.3. Bioaccumulative potential:	BCF		1584-2507		Lepomis macrochirus	OECD 305 (Bioconcentration - Flow-Through Fish Test)	
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance

## 2,6-di-tert-butyl-p-cresol

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	>0,57	mg/l		QSAR	
12.1. Toxicity to fish:	NOEC/NOEL	42d	0,053	mg/l	Oryzias latipes	OECD 210 (Fish, Early-Life Stage Toxicity Test)	
12.1. Toxicity to daphnia:	LC50	48h	0,61	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to daphnia:	NOEC/NOEL	21d	0,07	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to algae:	EC50	72h	0,5	mg/l	Desmodesmus subspicatus	OECD 201 (Alga, Growth Inhibition Test)	
12.1. Toxicity to algae:	NOEC/NOEL	72h	1	mg/l		OECD 201 (Alga, Growth Inhibition Test)	
12.2. Persistence and degradability:		28d	4,5	%		OECD 301 C (Ready Biodegradability - Modified MITI Test (I))	Not readily biodegradable

Page 22 of 27  
Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
Revision date / version: 21.03.2019 / 0014  
Replacing version dated / version: 22.02.2019 / 0013  
Valid from: 21.03.2019  
PDF print date: 22.03.2019  
Auto Duft Speed Sport Fresh 8 g  
Art.: 1664

12.3. Bioaccumulative potential:			230-2500		Cyprinus caprio	OECD 305 (Bioconcentration - Flow-Through Fish Test)	56d
Toxicity to bacteria:	EC50	3h	>10000	mg/l	activated sludge		
Other information:							Does not contain any organically bound halogens which can contribute to the AOX value in waste water.
Water solubility:			0,00076	g/l			

#### 1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	0,977	mg/l			
12.1. Toxicity to daphnia:	EC50	48h	1,18	mg/l	Daphnia magna	OECD 211 (Daphnia magna Reproduction Test)	
12.2. Persistence and degradability:		28d	16	%		OECD 301 C (Ready Biodegradability - Modified MITI Test (I))	Not biodegradable
12.3. Bioaccumulative potential:	Log Pow		4,2				High

#### pin-2(10)-ene

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	0,68	mg/l			
12.1. Toxicity to daphnia:	EC50	48h	0,86	mg/l			
12.1. Toxicity to algae:	EC50	72h	0,7	mg/l			
12.2. Persistence and degradability:		28d	1	%		OECD 301 D (Ready Biodegradability - Closed Bottle Test)	Not readily biodegradable
12.3. Bioaccumulative potential:	Log Pow		4,425				
12.3. Bioaccumulative potential:	BCF		1163				

#### 1,2,3,5,6,7-hexahydro-1,1,2,3,3-pentamethyl-4H-inden-4-one

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	2,12	mg/l	Oryzias latipes		
12.1. Toxicity to daphnia:	EC50	48h	1,5	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to algae:	EC50	72h	10	mg/l	Desmodesmus subspicatus	OECD 201 (Alga, Growth Inhibition Test)	
Toxicity to bacteria:	EC50	3h	>1000	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))	

### SECTION 13: Disposal considerations

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
Revision date / version: 21.03.2019 / 0014  
Replacing version dated / version: 22.02.2019 / 0013  
Valid from: 21.03.2019  
PDF print date: 22.03.2019  
Auto Duft Speed Sport Fresh 8 g  
Art.: 1664

### 13.1 Waste treatment methods

#### For the substance / mixture / residual amounts

EC disposal code no.:

The waste codes are recommendations based on the scheduled use of this product.  
Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances. (2014/955/EU)

07 07 99 wastes not otherwise specified

16 03 05 organic wastes containing hazardous substances

Recommendation:

Sewage disposal shall be discouraged.

Pay attention to local and national official regulations.

E.g. suitable incineration plant.

E.g. dispose at suitable refuse site.

#### For contaminated packing material

Pay attention to local and national official regulations.

Recycling

15 01 01 paper and cardboard packaging

15 01 02 plastic packaging

## SECTION 14: Transport information

### General statements

14.1. UN number: 1993

#### Transport by road/by rail (ADR/RID)

14.2. UN proper shipping name:

UN 1993 FLAMMABLE LIQUID, N.O.S. (2-TERT-BUTYLCYCLOHEXYL ACETATE,D-LIMONENE)

14.3. Transport hazard class(es): 3

14.4. Packing group: III

Classification code: F1

LQ: 5 L

14.5. Environmental hazards: environmentally hazardous

Tunnel restriction code: D/E

#### Transport by sea (IMDG-code)

14.2. UN proper shipping name:

FLAMMABLE LIQUID, N.O.S. (2-TERT-BUTYLCYCLOHEXYL ACETATE,D-LIMONENE)

14.3. Transport hazard class(es): 3

14.4. Packing group: III

EmS: F-E, S-E

Marine Pollutant: Yes

14.5. Environmental hazards: environmentally hazardous

#### Transport by air (IATA)

14.2. UN proper shipping name:

Flammable liquid, n.o.s. (2-TERT-BUTYLCYCLOHEXYL ACETATE,D-LIMONENE)

14.3. Transport hazard class(es): 3

14.4. Packing group: III

14.5. Environmental hazards: Not applicable

#### 14.6. Special precautions for user

Persons employed in transporting dangerous goods must be trained.

All persons involved in transporting must observe safety regulations.

Precautions must be taken to prevent damage.

#### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Freighted as packaged goods rather than in bulk, therefore not applicable.

Minimum amount regulations have not been taken into account.

Danger code and packing code on request.

Comply with special provisions.



## SECTION 15: Regulatory information

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
Revision date / version: 21.03.2019 / 0014  
Replacing version dated / version: 22.02.2019 / 0013  
Valid from: 21.03.2019  
PDF print date: 22.03.2019  
Auto Duft Speed Sport Fresh 8 g  
Art.: 1664

## 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Observe restrictions:

Comply with national regulations/laws governing the protection of young people at work (national implementation of the Directive 94/33/EC)!  
Comply with national regulations/laws governing maternity protection (national implementation of the Directive 92/85/EEC)!  
Comply with trade association/occupational health regulations.

Directive 2012/18/EU ("Seveso III"), Annex I, Part 1 - The following categories apply to this product (others may also need to be considered according to storage, handling etc.):

Hazard categories	Notes to Annex I	Qualifying quantity (tonnes) of dangerous substances as referred to in Article 3(10) for the application of - Lower-tier requirements	Qualifying quantity (tonnes) of dangerous substances as referred to in Article 3(10) for the application of - Upper-tier requirements
P5c		5000	50000
E2		200	500

The Notes to Annex 1 of Directive 2012/18/EU, in particular those named in the tables here and notes 1-6, must be taken into account when assigning categories and qualifying quantities.

Directive 2010/75/EU (VOC): 20 %

Observe incident regulations.

## 15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

## SECTION 16: Other information

Revised sections: 15

Employee training in handling dangerous goods is required.  
These details refer to the product as it is delivered.  
Employee instruction/training in handling hazardous materials is required.

## Classification and processes used to derive the classification of the mixture in accordance with the ordinance (EG) 1272/2008 (CLP):

Classification in accordance with regulation (EC) No. 1272/2008 (CLP)	Evaluation method used
Flam. Liq. 3, H226	Classification based on test data.
Eye Irrit. 2, H319	Classification according to calculation procedure.
Skin Irrit. 2, H315	Classification according to calculation procedure.
Skin Sens. 1, H317	Classification according to calculation procedure.
Aquatic Chronic 2, H411	Classification according to calculation procedure.

The following phrases represent the posted Hazard Class and Risk Category Code (GHS/CLP) of the product and the constituents (specified in Section 2 and 3).

H361f Suspected of damaging fertility.  
H226 Flammable liquid and vapour.  
H317 May cause an allergic skin reaction.  
H302 Harmful if swallowed.  
H304 May be fatal if swallowed and enters airways.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H373 May cause damage to organs through prolonged or repeated exposure.  
H400 Very toxic to aquatic life.



Page 25 of 27  
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
 Revision date / version: 21.03.2019 / 0014  
 Replacing version dated / version: 22.02.2019 / 0013  
 Valid from: 21.03.2019  
 PDF print date: 22.03.2019  
 Auto Duft Speed Sport Fresh 8 g  
 Art.: 1664

H410 Very toxic to aquatic life with long lasting effects.  
 H411 Toxic to aquatic life with long lasting effects.  
 H412 Harmful to aquatic life with long lasting effects.

Flam. Liq. — Flammable liquid  
 Eye Irrit. — Eye irritation  
 Skin Irrit. — Skin irritation  
 Skin Sens. — Skin sensitization  
 Aquatic Chronic — Hazardous to the aquatic environment - chronic  
 Acute Tox. — Acute toxicity - oral  
 Asp. Tox. — Aspiration hazard  
 Aquatic Acute — Hazardous to the aquatic environment - acute  
 STOT RE — Specific target organ toxicity - repeated exposure  
 Repr. — Reproductive toxicity

### Any abbreviations and acronyms used in this document:

AC Article Categories  
 acc., acc. to according, according to  
 ACGIH American Conference of Governmental Industrial Hygienists  
 ADR Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the International Carriage of Dangerous Goods by Road)  
 AOEL Acceptable Operator Exposure Level  
 AOX Adsorbable organic halogen compounds  
 approx. approximately  
 Art., Art. no. Article number  
 ATE Acute Toxicity Estimate according to Regulation (EC) 1272/2008 (CLP)  
 BAM Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing, Germany)  
 BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany)  
 BCF Bioconcentration factor  
 BGV Berufsgenossenschaftliche Vorschrift (= Accident Prevention Regulation)  
 BHT Butylhydroxytoluol (= 2,6-Di-t-butyl-4-methyl-phenol)  
 BMGV Biological monitoring guidance value (EH40, UK)  
 BOD Biochemical oxygen demand  
 BSEF Bromine Science and Environmental Forum  
 bw body weight  
 CAS Chemical Abstracts Service  
 CEC Coordinating European Council for the Development of Performance Tests for Fuels, Lubricants and Other Fluids  
 CESIO Comité Européen des Agents de Surface et de leurs Intermédiaire Organiques  
 CIPAC Collaborative International Pesticides Analytical Council  
 CLP Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures)  
 CMR carcinogenic, mutagenic, reproductive toxic  
 COD Chemical oxygen demand  
 CTFA Cosmetic, Toiletry, and Fragrance Association  
 DMEL Derived Minimum Effect Level  
 DNEL Derived No Effect Level  
 DOC Dissolved organic carbon  
 DT50 Dwell Time - 50% reduction of start concentration  
 DVS Deutscher Verband für Schweißen und verwandte Verfahren e.V. (= German Association for Welding and Allied Processes)  
 dw dry weight  
 e.g. for example (abbreviation of Latin 'exempli gratia'), for instance  
 EC European Community  
 ECHA European Chemicals Agency  
 EEA European Economic Area  
 EEC European Economic Community  
 EINECS European Inventory of Existing Commercial Chemical Substances  
 ELINCS European List of Notified Chemical Substances  
 EN European Norms  
 EPA United States Environmental Protection Agency (United States of America)  
 ERC Environmental Release Categories  
 ES Exposure scenario

Page 26 of 27  
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
 Revision date / version: 21.03.2019 / 0014  
 Replacing version dated / version: 22.02.2019 / 0013  
 Valid from: 21.03.2019  
 PDF print date: 22.03.2019  
 Auto Duft Speed Sport Fresh 8 g  
 Art.: 1664

etc. et cetera  
 EU European Union  
 EWC European Waste Catalogue  
 Fax. Fax number  
 gen. general  
 GHS Globally Harmonized System of Classification and Labelling of Chemicals  
 GWP Global warming potential  
 HET-CAM Hen's Egg Test - Chorionallantoic Membrane  
 HGWP Halocarbon Global Warming Potential  
 IARC International Agency for Research on Cancer  
 IATA International Air Transport Association  
 IBC Intermediate Bulk Container  
 IBC (Code) International Bulk Chemical (Code)  
 IC Inhibitory concentration  
 IMDG-code International Maritime Code for Dangerous Goods  
 incl. including, inclusive  
 IUCLID International Uniform Chemical Information Database  
 LC lethal concentration  
 LC50 lethal concentration 50 percent kill  
 LCLo lowest published lethal concentration  
 LD Lethal Dose of a chemical  
 LD50 Lethal Dose, 50% kill  
 LDLo Lethal Dose Low  
 LOAEL Lowest Observed Adverse Effect Level  
 LOEC Lowest Observed Effect Concentration  
 LOEL Lowest Observed Effect Level  
 LQ Limited Quantities  
 MARPOL International Convention for the Prevention of Marine Pollution from Ships  
 n.a. not applicable  
 n.av. not available  
 n.c. not checked  
 n.d.a. no data available  
 NIOSH National Institute of Occupational Safety and Health (United States of America)  
 NOAEC No Observed Adverse Effective Concentration  
 NOAEL No Observed Adverse Effect Level  
 NOEC No Observed Effect Concentration  
 NOEL No Observed Effect Level  
 ODP Ozone Depletion Potential  
 OECD Organisation for Economic Co-operation and Development  
 org. organic  
 PAH polycyclic aromatic hydrocarbon  
 PBT persistent, bioaccumulative and toxic  
 PC Chemical product category  
 PE Polyethylene  
 PNEC Predicted No Effect Concentration  
 POCP Photochemical ozone creation potential  
 ppm parts per million  
 PROC Process category  
 PTFE Polytetrafluorethylene  
 REACH Registration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals)  
 REACH-IT List-No. 9xx-xxx-x No. is automatically assigned, e.g. to pre-registrations without a CAS No. or other numerical identifier. List Numbers do not have any legal significance, rather they are purely technical identifiers for processing a submission via REACH-IT.  
 RID Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the International Carriage of Dangerous Goods by Rail)  
 SADT Self-Accelerating Decomposition Temperature  
 SAR Structure Activity Relationship  
 SU Sector of use  
 SVHC Substances of Very High Concern  
 Tel. Telephone  
 ThOD Theoretical oxygen demand  
 TOC Total organic carbon  
 TRGS Technische Regeln für Gefahrstoffe (=Technical Regulations for Hazardous Substances)

Page 27 of 27

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 21.03.2019 / 0014

Replacing version dated / version: 22.02.2019 / 0013

Valid from: 21.03.2019

PDF print date: 22.03.2019

Auto Duft Speed Sport Fresh 8 g

Art.: 1664

UN RTDG United Nations Recommendations on the Transport of Dangerous Goods

VbF Verordnung über brennbare Flüssigkeiten (= Regulation for flammable liquids (Austria))

VOC Volatile organic compounds

vPvB very persistent and very bioaccumulative

WEL-TWA, WEL-STEL WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period), WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period) (EH40, UK).

WHO World Health Organization

wwt wet weight

The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge.

No responsibility.

These statements were made by:

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